

6 a combination circuit coupled to receive the plurality of measurement corrections,  
7 said combination circuit [combining the measurement corrections to minimize transmission  
8 errors] configured to produce a combined measurement correction by replacing erroneous  
9 data of one of the measurement corrections with replacement data from another of the  
10 measurement corrections; and

11 a position determination circuit coupled to the combination circuit and the first  
12 receiver for determining the location of the receiver system using the position information  
13 and the combined measurement correction.

1 3. (Amended) The receiver system as set forth in claim 1, wherein the combination  
2 circuit further adjusts the measurement corrections to minimize a time bias and frequency  
3 bias of the measurement corrections prior to [combining] producing the combined  
4 measurement [corrections] correction.

1 4. (Amended) The receiver system as set forth in claim 1, wherein the combined  
2 measurement correction [data] comprises a combination of at least two measurement  
3 correction data of the plurality of measurement corrections.

1 5. (Amended) The receiver system as set forth in claim 2, wherein the first  
2 measurement correction data is transmitted by a first reference station of the plurality of  
3 reference stations and [said] the second measurement correction data is transmitted by a  
4 second reference station of the plurality of reference stations, [said] the first reference  
5 station being located closest in physical proximity to the receiver system and the second  
6 reference station being second closest to the receiver system.

1 13. (Amended) The receiver system as set forth in claim 1, wherein the at least one  
2 second receiver comprises [a] different types of receivers for selectively receiving  
3 measurement corrections across different types of media.

1 14. (Amended) A Global Positioning System (GPS) receiver system comprising:

2 a first receiver for receiving GPS data transmitted from at least one satellite;

3 at least one second receiver for receiving a first measurement correction transmitted

4 from a first reference station closest in distance to the first receiver and at least one second

5 measurement correction transmitted from at least one second reference station further in

6 distance from the first receiver than the first reference station;

7 a measurement correction adjustment circuit coupled to receive the first

8 measurement correction and the at least one second measurement correction, said

9 measurement correction adjustment circuit generating a combined measurement correction

10 as the weighted combination of the first measurement correction and the at least one second

11 measurement correction, the combined measurement correction being generated through the

12 replacement of erroneous portions of the first measurement correction with portions of at

13 least one second measurement correction; and

14 a position determination circuit for determining the location of the receiver system

15 based upon the GPS data and the combined measurement correction.

1 23. (Amended) The receiver system as set forth in claim 22, wherein the replacement

2 data comprises a corresponding portion of a second measurement correction data of the

3 plurality of measurement corrections, adjusted by [the] a common mode difference.

1 24. (Amended) The receiver system as set forth in claim [22] 23, wherein the common

2 mode difference is derived from a time bias between reference stations.

1 25. (Amended) The receiver system as set forth in claim [22] 23, wherein the common

2 mode difference is derived from a rate bias between reference stations.

1 29. (Amended) A Global Positioning System (GPS) receiver system comprising:

2 a first receiver for receiving position information transmitted from at least one

3 satellite;

4 at least one second receiver for receiving a plurality of measurement corrections  
5 transmitted from a plurality of reference stations;  
6 a processing circuit coupled to receive the plurality of measurement corrections and  
7 [said circuit generating] configured to generate a combined measurement correction from  
8 the plurality of measurement corrections [and determining] by replacing erroneous portions  
9 of one of measurement corrections with portions of at least one other of the plurality of  
10 measurement corrections and to determine the location of the receiver system based upon  
11 the position information and the combined measurement correction.

1 35. (Amended) In a receiver system for receiving position information transmitted from  
2 at least one first source, a method for correcting position information comprising the steps  
3 of:  
4 receiving a plurality of measurement corrections transmitted from a plurality of  
5 reference stations;  
6 generating a combined measurement correction from the plurality of measurement  
7 corrections by replacing erroneous portions of at least one of the measurement corrections  
8 with portions of at least one other of the measurement corrections; and  
9 determining the location of the receiver system based upon the position information  
10 and the combined measurement correction.

#### REMARKS

Reconsideration of this application, as amended, is respectfully requested. Claims 1, 14, 29 and 35 have been amended to recite the subject matter which was indicated as being allowable over the cited art of record in paragraph 10 of the Office Action. In addition, claims 23, 26, and 27 have been amended and, as a result, the rejections under 35 U.S.C. § 112, second paragraph, have been obviated.